

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B32B3/06 B29C33/76 B29C33/50
//B29L9:00, B29L22:00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B29D B29C B32B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 863 650 A (KOEHLER WINFRIED R ET AL) 5 September 1989 (1989-09-05) the whole document	1, 9, 32, 34
A	DATABASE WPI Week 9393 Derwent Publications Ltd., London, GB; Class 35, AN 1993-277752 XP002288515 & JP 05 192930 A (NIPPON OILS & FATS) 3 August 1993 (1993-08-03) abstract	1, 9, 32, 34
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

21 July 2004

Date of mailing of the international search report

30/07/2004

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INTERNATIONAL SEARCH REPORT

International Application No

/IT 03/00707

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE WPI Week 8686 Derwent Publications Ltd., London, GB; Class 45, AN 1986-294335 XP002288516 & JP 61 215015 A (TOYO RUBBER) 24 September 1986 (1986-09-24) abstract -----	1,9,32, 34
A	US 4 698 245 A (SCHALLMEIER GUENTER ET AL) 6 October 1987 (1987-10-06) the whole document -----	1,9
A	GB 1 075 473 A (DURIRON CO) 12 July 1967 (1967-07-12) page 3, line 68 - line 92; figures 7,8 page 2, line 31 - line 46 page 1, line 32 - line 52; figure 1 -----	1,9
A	US 6 458 446 B1 (BEAUMONT JOSEPH H ET AL) 1 October 2002 (2002-10-01) the whole document -----	1,9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

.../IT 03/00707

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4863650	A	05-09-1989	AT 55721 T	15-09-1990
			DE 3381826 D1	27-09-1990
			EP 0111100 A2	20-06-1984
			ES 8405685 A1	01-10-1984
			JP 1940841 C	23-06-1995
			JP 4074165 B	25-11-1992
			JP 59106948 A	20-06-1984
			AU 567899 B2	10-12-1987
			AU 2175483 A	18-10-1984
			BR 8400195 A	12-02-1985
JP 5192930	A	03-08-1993	NONE	
JP 61215015	A	24-09-1986	NONE	
US 4698245	A	06-10-1987	DE 3428368 A1	13-02-1986
			AT 51800 T	15-04-1990
			CA 1238561 A1	28-06-1988
			DE 3577060 D1	17-05-1990
			EP 0170127 A2	05-02-1986
			IN 163011 A1	30-07-1988
			JP 61044630 A	04-03-1986
GB 1075473	A	12-07-1967	NONE	
US 6458446	B1	01-10-2002	NONE	